

1 **ABSTRACT**

2 Shared network path contention can be reduced by limiting the number of
3 contending client devices to which pending requests may be outstanding.
4 Contention may also be reduced by managing available downstream bandwidth
5 based on request size and managing available upstream bandwidth based on
6 estimated response size. Portions of available downstream and/or upstream
7 bandwidth may also be allocated to groups of one or more applications from
8 which requests may be received, and the allocated portions may be configured to
9 vary over time.

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